

IN THE CLAIMS:

Please AMEND claims 1, 6, 7, 11, 13, 16, 24, and 25 in accordance with the following:

1. (CURRENTLY AMENDED) An optical disc for use with a recording/reproducing apparatus, the optical disc comprising:

~~track grooves formatted into a waved pattern in the radial direction of the disc~~~~formed in a radial direction of the disc, with the disc being divided into a plurality of zones, the track grooves being formatted into a waved pattern in the radial direction of the disc, to be overlapping over in which recorded user data is recorded by the apparatus with so as to record zone address~~ information for each of the divided zones based on a predetermined modulation rule, wherein

each zone has an initial recording capacity and, during a recording of the user data by the apparatus, a zone start pattern and/or zone end pattern is additionally recorded in each zone by the apparatus, and

when a first zone is detected by the apparatus, user data is recorded in the data recording area of the first zone before a predetermined pattern unrelated to the user data is recorded in at least one of the coupling areas of the first zone, which is recorded until a next zone is detected.

2. (CANCELLED)

3. (CANCELLED)

4. (CANCELLED)

5. (CANCELLED)

6. (CURRENTLY AMENDED) The optical disc of claim 1, wherein the track grooves comprise a land portion and a groove portion, and wherein a sequence in recording or reproduction of data in each zone is performed by the apparatus according to a following sequence: after recording or reproduction at a groove portion in each zone is completed, recording or reproduction at the land portion is performed by the apparatus.

7. (CURRENTLY AMENDED) The optical disc of claim 1, wherein the track grooves comprise a land portion and a groove portion, and wherein a sequence in recording or reproduction of data in each zone is performed by the apparatus according to a following sequence: after recording or reproduction at a land portion in each zone is completed, recording or reproduction at the groove portion is performed by the apparatus.

8. (ORIGINAL) The optical disc of claim 1, wherein the optical disc is a DVD-RAM disc.

9. (ORIGINAL) The optical disc of claim 1, wherein each zone has a plurality of sectors.

10. (ORIGINAL) The optical disc of claim 9, wherein each of the plurality of sectors has a sector address portion to store a corresponding sector address.

11. (CURRENTLY AMENDED) An optical disc for use with a recording/reproducing apparatus, the optical disc comprising:

a plurality of tracks formed in a spiral direction of the optical disc, each track having at least a groove portion; and

a plurality of zones, each zone including a predetermined number of the plurality of tracks, each zone further including a data recording area, a zone start pattern at an inner circumference of the data recording area, a zone end pattern at an outer circumference of the data recording area, and at least one coupling area at an inner circumference of the zone start pattern and/or an outer circumference of the zone end pattern, the coupling area being separate from a user data recording area of each zone,

wherein the optical disc is formatted to include zone addresses for each zone by formatting a portion of the corresponding zone track grooves, in each zone, to include a wobble pattern based on a predetermined modulation rule, and

wherein, during a recording of user data by the apparatus, a first arbitrary data predetermined pattern is first recorded in the zone start pattern, then user data is recorded in the data recording area, then a second predetermined pattern ~~arbitrary data~~ is recorded in the zone end pattern, and then a third predetermined pattern ~~arbitrary data~~ is recorded in the coupling area, each predetermined pattern being unrelated to the user data.

12. (ORIGINAL) The optical disc of claim 11, wherein each track further includes a land portion.

13. (CURRENTLY AMENDED) The optical disc of claim 12, wherein land and groove recording and reproduction by the apparatus is possible, respectively, to and from more than one spiral of the optical disc.

14. (ORIGINAL) The optical disc of claim 11, wherein the optical disc is a DVD-RAM.

15. (CANCELLED)

16. (CURRENTLY AMENDED) The optical disc of claim 11, wherein the third predetermined pattern~~arbitrary data~~ recorded in the coupling area is based on a recording or reproduction system to perform recording or reproduction, respectively, to or from the optical disc.

17. (CANCELLED)

18. (ORIGINAL) The optical disc of claim 11, wherein the predetermined modulation rule is one of an FM modulation, an AM modulation, and a PM modulation.

19. (ORIGINAL) The optical disc of claim 11, wherein the predetermined number of the plurality of tracks for each zone is based upon the data recording capacity needed for each zone plus an arbitrary recording capacity.

20. (CANCELLED)

21. (ORIGINAL) The optical disc of claim 11, wherein each zone has a plurality of sectors.

22. (ORIGINAL) The optical disc of claim 21, wherein each of the plurality of sectors has a sector address portion to store a corresponding sector address.

23. (CANCELLED)

24. (CURRENTLY AMENDED) A method of recording data on an optical disc, comprising:

- dividing the optical disc into a plurality of zones;
- formatting a zone address portion of one of the zones to include a wobble pattern based on a predetermined modulation rule and corresponding to an address of the zone;
- recording a zone start pattern in a leading portion of the user data portion of the zone to define a start of a user data portion of the zone;
- recording user data in the user data portion of the zone following an end of the zone start pattern;
- recording a zone end pattern following an end of the user data to define an end of the user data portion of the zone; and
- recording a predetermined pattern unrelated to the user data in an additional coupling portion of the zone, after the recording of the zone start pattern, the user data, and the zone end pattern.

25. (CURRENTLY AMENDED) A method of recording data on an optical disc, comprising:

- recording user data in a user data portion of ~~the~~ a zone of the optical disc;
- recording a predetermined pattern unrelated to the user data in an additional coupling portion of the zone, after the recording of the user data;
- recording a zone start pattern and/or zone end pattern in each zone, during the recording of the user data;
- dividing the optical disc into a plurality of zones; and
- formatting a zone address portion of one of the zones to include a wobble pattern based on a predetermined modulation rule and corresponding to an address of the zone.